

# MILAN KACAR

## Software & Survey Engineer

@ milankacar@live.com    ☎ +43 677 614 375 95    📍 Vienna , Austria    🔗 https://milankacar.github.io/  
📧 Milan Kacar    🐦 @MilanKacar    🔗 https://at.linkedin.com/in/milan-kacar    📷 @milan\_kacar



## ABOUT ME

I am a Software Engineer & Survey Engineer with 5+ years of professional experience. I graduated Geodesy at Graz University of Technology in Austria, where I worked as a project and teaching assistant. Currently, I am working in the e-commerce & fintech industry for Niceshops GmbH and Gateway Ventures GmbH as a Data Scientist / Engineer / Analyst. I grew up in Mrkonjic Grad (Republic of Srpska, BA) where I finished my high school having Mathematics, Logic, and Physics at a Higher Level.

## PERSONAL INFORMATION

📅 Date of birth	01.09.1995
📍 Birthplace	Banja Luka, BA
🏳️ Citizenship	Austrian
❤️ Marital status	Single
♂️ Sex	Male

## EDUCATION

### GYMNASIUM

📅 2010 - 2014    📍 Mrkonjic Grad, BA

### BSc Geomatics Engineering

#### University of Technology, TU Graz

📅 2015 - 2019    📍 Graz, Austria

### Master's Degree Programme - Geodesy

#### University of Technology, TU Graz

📅 2019-Present    📍 Graz, Austria

### Master's Degree Programme - Computer Science

#### University of Technology, TU Graz

📅 2020-Present    📍 Graz, Austria

## UNIVERSITY & PERSONAL PROJECTS

- SCIENTIFIC PAPER MINER - Based on the publishing institutions we define our market competitors and geocode their locations. [Python/WebScaper]
- POLLEN TREE DETECTOR (FROM SATELLITE IMAGES) - This project presents an automated tree detecting and identification method based on image processing of satellite imagery. [Python/keras/pytorch]
- STOCK PRICES PREDICTOR - Project uses AI (Artificial intelligence) and ML (Machine learning) as a hybrid approach to detect prices fluctuation (SP 500, Dow Jones, DAX etc.) [Python/keras/pytorch]
- RUSHB APP - New method to summon a waiter and order food in bars and restaurants. As a test page you can look at <http://www.dolcevita.rushb.app/client.php>. [JavaScript/PHP/Java]
- DIFFERENT SIGNAL PROCESSING PROJECTS - Mostly projects on GNSS signals. [C++]
- GRAVITY ANOMALY MAPS - GRACE misson. [Python/MATLAB]
- KALMAN FILTER · ADVANCED KALMAN FILTER · PARTICLE FILTER - as a part of indoor navigation. [C++]
- DIFFERENT ARDUINO PROJECTS - Mostly projects from youtube tutorials and combination of different projects. [C/Java/C++]

## TECHNICAL STRENGTH

Python	● ● ● ● ●
Google Cloud	● ● ● ● ●
C/C++	● ● ● ● ●
GIS	● ● ● ● ●
PostgreSQL	● ● ● ● ●
Cloud computing	● ● ● ● ●
Navigation	● ● ● ● ●
GNSS	● ● ● ● ●
Signal Processing	● ● ● ● ●
Java	● ● ● ● ●
Data Structures & Algorithms	● ● ● ● ●
MySQL	● ● ● ● ●
Docker	● ● ● ● ●
Java Script	● ● ● ● ●
PHP	● ● ● ● ●
Linux	● ● ● ● ●
R	● ● ● ● ●
Apache Spark	● ● ● ● ●
Scala	● ● ● ● ●

# DISSERTATION WORK

## BSc Thesis

### Database for cycling routes

- Entity Relationship Diagram.
- Building the Database.
- Conversion from analog to digital maps.

## MSc Thesis

### PV (Photovoltaic) panels detection from satellite images

- Project uses AI (Artificial intelligence) and ML (Machine learning) as a hybrid approach to detect panels.
- Building an independent model to work on different datasets.
- Cloud computing
- YOLOv5

# WORK EXPERIENCE

## Survey Engineer

### GEODATA

📅 July 2019 - December 2020      📍 Semmering Basistunnel, Austria

Tunnel surveying | 3D Laser scanner measurements

## Teaching Assistant

### TU Graz

📅 March 2021 - January 2022      📍 Graz, Austria

Integrated navigation | Sensor fusion | Indoor navigation

## Software Engineer

### TU Graz

📅 Sep 2019 - January 2022      📍 Graz, Austria

Software Architect | Project Management | Automation | Data Analysis | ML Forecasting | Statistics | Automotive Battery and Electric Vehicle Testing

## Data Scientist & Data Engineer

### niceshops GmbH

📅 January 2021 - pending      📍 Vienna, Austria

Finances (all types of tasks) analysis | Cloud computing | Looker | AI & ML tasks | Courses inside the house / teaching (Looker) | Research about demand forecasting | Dynamic pricing

## Data Engineer / TL

### Gateway Ventures GmbH

📅 August 2023 - pending      📍 Vienna, Austria

Startup Founding | Startup Valuation models | Pitch Deck Analyzer | Tinder for Investors/Startups | Data Lake construction | Data Mining | Data Scraping | Project Management

# STRENGTHS

- Hard-working
- Decision Making
- Ability to Work Under Pressure
- Motivator & Leader
- Conflict Resolution
- Time Management
- Target oriented
- Able to travel
- Flexibility and Adaptability
- Problem solver

# LANGUAGES

Serbian | Croatian | Bosnian      ●●●●●●

English      ●●●●●●

German      ●●●●●●

Russian      ●●●●●●

# HOBBIES

- 📖 **Reading**  
I am trying to read a book per week.
- 🎨 **Sports Addict**  
At a young age I enjoyed playing tennis, but my interests migrated towards Fitness and healthy food.
- ✈️ **Travelling**  
After living in a rustic, small town for the past 18 years, I was craving change and adventure. Ten years later, I've traveled to more places during college than the first two decades of my life.
- 📈 **Trading**  
I love to analyze the markets and factors that may impact the price on daily/weekly and long term basis.